OLCF Seminar Series

Towards Derivation, Management and Analysis of Exascale Feature Sets

July 1, 2010

1:00 p.m.

Bldg.5100
Room 128

HOST: Scott Klasky (klasky@ORNL.GOV

Note: If you would like to request a meeting with the visitor, please contact Sherry Hempfling (hgv@ornl.gov)

Joel H. Saltz, MD, PhD

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BIO: Dr. Joel Saltz is Director of the Center for Comprehensive Informatics, Professor of Pathology, Biostatistics and Bioinformatics, Mathematics and Computer Science at Emory University, Chief Medical Information Officer at Emory Healthcare, Adjunct Professor at Georgia Institute of Technology in the School of Computer Science and the Division of Computational Science, Georgia Research Alliance Eminent Scholar, and Georgia Cancer Coalition Distinguished Cancer Scholar. Prior to joining Emory, Dr. Saltz was Professor and Chair of the Department of Biomedical Informatics at The Ohio State University (OSU) and Davis Endowed Chair of Cancer at OSU. He served on the faculty of Johns Hopkins Medical School, University of Maryland College Park and Yale University in departments of Pathology and Computer Science. He received his MD and PhD (computer science) degrees at Duke University and is a board certified Clinical Pathologist trained at Johns Hopkins University.

Over the past decade, Dr. Saltz has developed a rich set of middleware, optimization and runtime compilation methods that target irregular, adaptive and multi-resolution applications. He was the originator of the inspector-executor compilation framework and has extended this framework to handle a wide variety of computationally intensive applications as well as to the optimization of queries that target disk based multi-resolution datasets. This work has targeted a wide variety of architectural platforms that range from high end multiprocessors, to clusters to distributed grid environments. Dr. Saltz is also heavily involved in the development of ambitious biomedical applications that target high end computers, very large scale storage systems and grid environments.